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Re-evaluation Note REV2018-10

Re-evaluation Project Plan for (S)-Kinoprene

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Background

In Canada, (S)-kinoprene is under re-evaluation by Health Canada's Pest Management Regulatory Agency (PMRA). The PMRA re-evaluates registered pesticides to determine whether the use of these products continues to be acceptable in terms of value, human health and the environment according to current standards.

(S)-kinoprene is an insect growth regulator used for agriculture to control insect pests throughout their life cycle. It is registered for use on greenhouse non-food crops and is applied as a foliar spray. There is one technical grade active ingredient and one commercial class end-use product.

Under the authority of section 16 of the *Pest Control Products Act*, the registrant of (S)-kinoprene was notified of the initiation of the re-evaluation of (S)-kinoprene. Following this, the registrant of (S)-kinoprene technical grade active ingredient in Canada indicated support of all uses included on the label of the end-use product in Canada.

The re-evaluation project plan below outlines the timeline, the anticipated areas of focus for the risk assessments, and the data requirements for the re-evaluation of (S)-kinoprene.

Re-evaluation Project Plan

Anticipated Re-evaluation Timeline

The re-evaluation of (S)-kinoprene is defined as a Category 1 as described in Regulatory Directive DIR2016-04, *Management of Pesticides Re-evaluation Policy*. However, because this re-evaluation was initiated prior to the publication of DIR2016-04, the proposed re-evaluation decision for (S)-kinoprene is anticipated to be published for consultation by December 2019. The re-evaluation timeline may be updated if the PMRA identifies additional areas of focus during the risk assessment that should be considered.

Human Health Risk Assessment

New assessments will be conducted for toxicology, occupational exposure and residential exposure.

Environmental Risk Assessment

New assessments will be conducted for environmental fate and environmental exposure.

Value

The value of (S)-kinoprene will be considered. The viability of alternatives will be examined for certain uses if risks of concern requiring mitigation are identified.

Data Requirements

The PMRA identified the need for the technical registrant to provide data for (S)-kinoprene related to health and the environment. Relevant data/studies were requested and received from

the technical registrant. A summary of the data call-in is found in the PMRA's Public Registry, in the Pesticides section of Canada.ca. For a list of data categories that were required, see Appendix I. In addition, information regarding the registered use pattern was requested and received from the registrant, to inform the risk assessments.

Additional Information

PMRA documents can be found in the Pesticides section of Canada.ca. The PMRA documents are also available through the Pest Management Information Service:

Phone:	1-800-267-6315	within Canada, or
	1-613-736-3799	outside Canada (long distance charges apply)
Fax:	1-613-736-3798	
E-mail:	hc.pmra.info-arla.sc@canada.ca	

Appendix I Data Required Under Subsection 19(1) of the *Pest Control Products Act* for the Re-evaluation of (S)-kinoprene

I. Toxicology Data

DACO	Title
4.2.6	Dermal Sensitization
4.3.1	Dermal Sensitization
4.3.2	Short-term Oral (90-day and/or 12-month dog)
4.5.2	Prenatal Developmental Toxicity (rodent)

II. Environmental Chemistry, Fate and Toxicology Data

DACO	Title
8.2.2.1	Analytical Methodology: soil
8.2.2.3	Analytical Methodology: water
8.2.3.2	Laboratory Studies of Transformation: hydrolysis
8.2.3.4.2	Aerobic Soil Metabolism
9.2.4.2	Bees/Pollinators: acute oral
9.2.4.3	Bee larvae toxicity
9.2.4.4	Bee adult chronic toxicity
9.2.5	Bees/Pollinators: predators
9.2.6	Bees/Pollinators: parasites